

**TIRE WATCH™ FOR MOTORCYCLE  
USER MANUAL**

Thank you for purchasing the TIRE WATCH™, tire pressure monitoring system. TIRE WATCH™ will allow you to drive with more confidence and be alerted in the event of a slow leak or puncture. The setup options for the TIRE WATCH™ system are detailed below.

**IMPORTANT**

Read instructions completely before proceeding. Please do not set the system values (C) until the sensor recognition is completed.

**A – KIT COMPOSITION ( $\varnothing$  8,5 -  $\varnothing$  11,5 - BMW)**



- ① 1 display + button battery CR2450
- ② 2 wheel unit sensors (with 11.5XL nut and spring)
- ③ 2 valves
- ④ 2 specific seals for some BMW rims (see specificities)
- ⑤ 2 seals for 8.5mm valve hole
- ⑥ 2 nuts for 8.5mm valve hole (see specificities)
- ⑦ 1 peg for valve in spoke (see specificities)
- ⑧ 1 connector position assurance (CPA)
- ⑨ 1 clipbar

- ⑩ 1 clipbody
- ⑪ 1 bracelet
- ⑫ 1 handle bar screws kit : 1 M5x20 screw, 1M5 self locking nut, 1 sleeve
- ⑬ 1 motor body screw kit : 2 M3 screws, 2 M3 nuts, 2 washers
- ⑭ 1 steering column screw kit : 1 compressible brace, 1 M5x40 screw, 1 M5 nut with washer

**B- KNOW EVERYTHING ABOUT YOUR EQUIPMENT**

**FIG 1 – DISPLAY BUTTON FUNCTIONS**



Bt 1 : ON / Scrolling menus / Validation / Backlight only  
 Bt 2 : ON / OFF / Display Units Setting / Swap from Pressure to Temperature + backlight (4 seconds)

- |   |
|---|
| <ul style="list-style-type: none"> <li>① – Tire Pressure or Temperature information</li> <li>② – Pressure (bar/PSI) or Temperature unit (°C)</li> <li>③ – External temperature - NB : Due to the waterproof nature of the housing, stabilisation of the temperature reading may take several minutes.</li> <li>④ - 24 Hour Clock</li> </ul> |
|---|

**Note : Permanent back light function :** to activate the permanent back light press Bt 1 and Bt 2 simultaneously. Do the same to turn off the permanent back light. The permanent use of the back light uses excessive battery life so its usage is recommended at night only.

FIG 2 – TURN THE DISPLAY ON AND OFF



**ON :** → short push on Bt 1 or Bt 2 (temperature displayed after 10s) – The display is waiting for IDs reception

**OFF :** → long push on Bt 2 or automatically turn off after 6mn caused by no wheel unit sensor transmission

FIG 3 – CHANGING THE DISPLAYED MODE



Pressure is the standard display mode – To display Temperature → short push on Bt 2

To return to the pressure display → push again shortly on Bt 2

### C : FIRST USE OF THE DISPLAY

FIG 9 – MENU 06 : FRONT &amp; REAR TIRE IDENTIFIER (ID) SENSOR RECOGNITION

The first time the display is powered up, it has to verify the unique ID of the front and rear tire (the unique ID's are pre-programmed during manufacture - not allocated to a position - and have to be confirmed now to the display).

Turn ON the display → short push on Bt 1 or Bt 2



① ID symbols are blinking - **Drive more than 20 Mph until Pressure values are displayed (time out 4 minutes)**

② To invert the front and rear wheel unit sensor location → FIG 8 – MENU 05 – **Tire values are reversed**

If this learning phase fails dashes will be displayed instead pressure values. You must repeat the ID sensor recognition process

**⚠** Switch off the display and wait 8 minutes, motorcycle stopped, before repeating this phase  
If the pressure values are not displayed after several trials, please contact your dealer.

### D – VALUES & ALARM SETTINGS

Proceed to the scrolling menu → long push on Bt 1

Once the wanted menu is reached → (the first digit blinks to prompt you to enter the value), to set the 1<sup>st</sup> digit → short push on Bt 2 until the wanted value is reached.

To validate the 1<sup>st</sup> digit and set the 2<sup>nd</sup> digit → short push on Bt 1

**Repeat the operation until the last digit.**

To validate the last digit and the on going menu → short push on Bt 1

To proceed to the next menu → short push on Bt 1

To go back to the standard mode : (FIG 3) → long push on Bt 1

## E - SET YOUR VALUES BY USING THE SCROLLING MENU

FIG 4 – MENU 01 : HOUR SETTING



Proceed to the scrolling menu → long push on Bt 1

Adjust your values as described in chapter D

FIG 5 – MENU 02 : PRESSURE UNIT PSI or bar



The default unit is Bar, to change to PSI → short push on Bt 2 , to return to bar unit → press again on Bt 2

To save your unit choice → press on Bt 1

To access the next menu Bt 1

Note : Temperature unit is fixed to °C

FIG 6 – MENU 03 : FRONT LOW TIRE PRESSURE THRESHOLD SETTING



Default range for front tire values: 1,4 bar to 3,5 bar (20 to 51 PSI)

**Minimum alert pressure (LO) pre-programmed at 1,8 bar (26 PSI)**

Set the values for front tire according to the tire manufacturer recommendation.

FIG 7 – MENU 04 : REAR LOW TIRE PRESSURE THRESHOLD SETTING



Default range for rear tire values: 1,4 bar to 3,5 bar (20 to 51 PSI)

**Minimum alert pressure (LO) pre-programmed at 1,8 bar (26 PSI)**

Set the values for rear tire according to the tire manufacturer recommendation.

FIG 8 – MENU 05 – Front/Rear Tire Values Are Reversed



In case sensor values are reversed during the learning phase you can swap them (in general front pressure is the lowest value).

Reach FIG 8 by an extended push on Bt 1 - Then, push shortly on Bt 2

To validate → short push on Bt 1

To return to the main display → long push on Bt 1

## F – RECOGNIZE YOUR WHEEL UNIT SENSORS

Process to follow when you change one or two wheel unit sensors

FIG 9 – MENU 06 : ID RECOGNITION

 During all the learning process, tires must at least be inflated at 1 bar.



From ON → extended push on Bt 1 until FIG 9 display is seen.  
To launch ID learning → short push on Bt 2 ; **ID symbols blink - Drive more than 20 Mph until Pressure values are displayed (time out 4 minutes)**

## G – RECOGNIZE THE DIFFERENT ALERT MODES

FIG 10 – PRESSURE THRESHOLD CROSSING ALERT



When the display receives lower pressure information compared to the programmed thresholds, the alert starts:

- during the first 3 minutes the red led blinks alternating with bar symbol / arrow pointing to the faulty tire- then bar and arrow symbol will flash until new tire inflation (backlight on during 3 minutes to see the alert at night drivings)

To display tire temperature during alert → short push on Bt 2 - The display will return automatically to pressure alert after 10 seconds.

FIG 11 – TEMPERATURE THRESHOLD CROSSING ALERT



A high temperature threshold is programmed at 80°C for front tire and 90°C for rear tire and cannot be changed.

When the display receives upper pressure information compared to the programmed thresholds, the alert starts:

- °C symbol / arrow of the faulty tire are flashing until the tire comes to a lower value than the programmed threshold

To display tire pressure during alert → short push on Bt 2 - The display will return automatically to temperature alert after 10 seconds

Note : Pressure alert has priority even if temperature alert is active

FIG 12 – LOW BATTERY DISPLAY ALERT



**Battery symbol is blinking** to inform you that you have to change the battery of the display (PANASONIC OR MAXELL CR2450 only)

FIG 13 - NON PERMANENT LOSS OF COMMUNICATION



In case the receiver does not receive the signal from the sensors, dashes will be displayed instead of pressure / temperature value. If the problem is permanent, please contact your distributor.

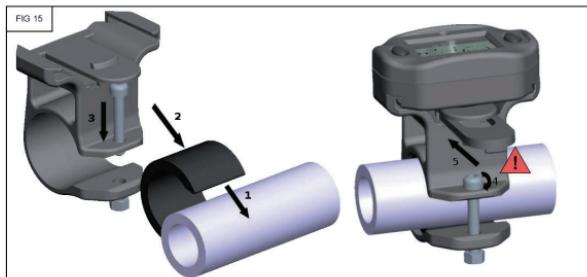
FIG 14 – WHEEL UNIT SENSOR LOW BATTERY ALERT



The pressure information blinks alternately with Lo symbol to inform you that the sensor must be replaced. Ask your distributor.  
Note : In winter conditions disregard this message below 8°C /46°F(external temperature)

## H – HOW TO MOUNT YOUR DISPLAY

**FIG 15 – HANDLE BAR MOUNT**  
(See Page 2 for component description)



1) Place the display in the desired place on the handle bar.

2) Secure display with the enclosed screw kit n°12.

3) Attach the display and insert the CPA clip n°8. The display is now secured.

FIG 16 – BODY MOUNT



1) Drill the body and attach the bracket with screw kit n°13.

2) Attach the display and insert the CPA clip n°8.

3) The display is now secured.

FIG 17 – BAND MOUNT



1) Insert the band through the slots beneath the bracket (horizontally or vertically)

2) Pull band with pliers.

3) Attach the display. Do not use the CPA clip with bracelet.

FIG 18 – STEERING COLUMN MOUNTING (from Ø12 to Ø16mm)



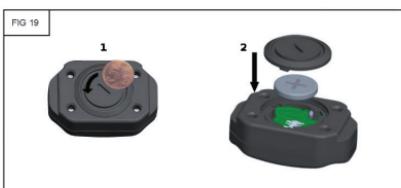
1) Insert the screw into the bracket central hole (screw kit n°14).

2) Place the compressible spacer and nut on the screw and put it on the steering column tube.

3) Screw until the bracket is correctly fixed (NB : do not exceed 2Nm (13 in. lbs)).

4) Insert the CPA clip n°8 to secure the display

FIG 19 – CHANGE THE BATTERY FROM THE DISPLAY

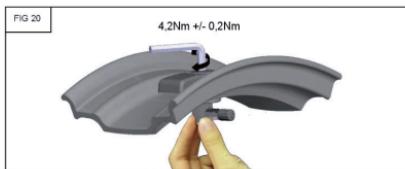


1) Unscrew the battery cover on the back of the display using a coin.

2) Replace the old battery with a new one (CR2450 PANASONIC or MAXELL only) as illustrated and screw again the battery cover. Please check that the seal is correctly in place.

3) Please dispose the old battery in a safe and proper manner.

FIG 20 – REMINDER FOR MOTOR DEALERSHIP FOR WHEEL UNIT SENSORS MOUNTING



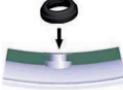
Screw the nut with a 5mm allen key. Do not exceed 2 rounds per second and hold the valve while screwing to prevent it from turning around.

- A** Final torque 4,2Nm +/- 0,2Nm (37,2 in. lbs +/- 1j77in. lbs)  
– The sensor must not get in touch with the tire during the mounting process.

## I - SPECIFICITIES

### TIRE WATCH

#### SPECIFICITIES

<b>BMW Valve In Spoke Model</b>	  <p>Rim without valve thread Rim Radial M8 thread</p>	 		  <p>Nut 8.5 4.5 Nm</p>
<b>BMW Deep Valve Hole Model</b>				
<b>Ø 8.5mm Valve hole Flat seat</b> <i>Ducati Triumph KTM Moto Guzzi</i>				
<b>Ø 8.5mm Valve hole Curved seat</b> <i>Special Rim OZ racing Dymag</i>			  <p>Standard Nut 8.5</p>	

**J – SAFETY AND GENERAL INFORMATION**

Users are not permitted to modify the device in any way.

TIRE WATCH TM is an information tool. Proper inflation and tire maintenance are the responsibility of the vehicle driver. Tire pressure must be to manufacturer recommended levels. Always inflate your tires cold. (23°C/73°F).

Tire values will be updated while driving.

**USA, Canada and European Union Directives Conformity**

Products marked CE are in compliance with Directive R&TTE (99/5/EC).

Products marked FCC are in compliance with Directive FCC- part 15.

**User precautions**

- Never mount directly on a metal part, you may prevent signal reception.
- TIRE WATCH is rain proof . Do not wash directly with a pressure washer or garden hose.
- Avoid prolonged exposure to sunlight when not in use.
- Do not repair or modify the TIRE WATCH. This will void the warranty. Repair must be done by an authorized facility.
- Never use solvent, only wash TIRE WATCH with water soap and soft cloth.
- If you drive close to strong radio or radar signals (airport, military base) performance may be affected.

**Warranty :** One year with factory receipt and warranty card.

**LDL Technology reserves the right to modify its product and to bring any modification without preliminary notice.**